

MATERIAL SAFETY DATA SHEET THOR ACRYLIC ADHESIVE

Commission Regulation (EU) No 2015/830 of 28 May 2015.

PART 1: IDENTIFICATION OF SUBSTANCE/MIXTURE AND COMPANY/DISTRIBUTOR

1.1. Identification of Substance/Mixture:

Product name : THOR Acrylic Adhesive

Product code : TRA21

1.2. Identified uses and inadvisable uses of substance or mixture

Identified uses : 2K Adhesive

1.3. Information about Material Safety Data Sheet provider

Company name : ELKAY KİMYASAL MADDELER SAN. TİC. A.Ş.

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Telephone : +90 262 751 21 87- 88

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1.4. Emergency phone number

Emergency phone number : ELKAY: +90 262 751 21 89

National emergency phone : National poison information center (UZEM) : 114 Fire brigade: 110
Emergency health services: 112

PART 2: HAZARDS IDENTIFICATION

2.1. Classification of substance or mixture

| | |
|-----------------------|---|
| Physical hazards | Flam. Liq. 2 - H225 |
| Health hazards | Skin Irrit. 2 - H315 Skin Sens. 1 - H317 STOT SE 3 - H335 |
| Environmental hazards | Not Classified |
| Human health | May irritate eyes. Prolonged or repeated exposure may cause the following adverse effects: Redness. Irritation. Eczema/contact dermatitis. Dryness and/or cracking. Oil acne. |

2.2. Label ingredients

Hazards mark:



GHS02



GHS07

Warning word: Danger

Hazards phrases: **H225:** Highly flammable liquid and vapour.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H335: May cause respiratory irritation.

MATERIAL SAFETY DATA SHEET THOR ACRYLIC ADHESIVE

Commission Regulation (EU) No 2015/830 of 28 May 2015.

Precautionary phrases:

- P210** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P261 Avoid breathing vapour/ spray.
P264 Wash contaminated skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P303+P361 +P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTRE/doctor if you feel unwell.
P321 Specific treatment (see medical advice on this label).
P332+P313 If skin irritation occurs: Get medical advice/ attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/ container in accordance with national regulations.

Contains METHYL METHACRYLATE

2.3. Other damages

In case of contact with skin; may cause irritation, eczema or burns.

PART3: INFORMATION ABOUT COMPOSITION/INGREDIENTS

3.1. Substances

-None

3.2. Mixtures

| Substance | C.A.S No- | EINECS | Concentration % | SEA T.C. 28848 |
|-----------|-----------|--------|-----------------|-------------------|
| | | | | Class, H Phrases* |

MATERIAL SAFETY DATA SHEET THOR ACRYLIC ADHESIVE

Commission Regulation (EU) No 2015/830 of 28 May 2015.

| | | | | |
|------------------------|---------|-----------|-------|--|
| METHYL METHACRYLATE | 80-62-6 | 201-297-1 | 40-60 | Classification Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 STOT SE 3 - H335 |
|------------------------|---------|-----------|-------|--|

The full text for all hazard statements is displayed in Section 16.

Composition comments The data shown are in accordance with the latest T.C. and EC Directives.

PART4: FIRST AID MEASURES

4.1. Description of first aid measures

- General information No personal protective equipment is required for first aid.
- Skin contact In case of contact with the product, wash with plenty of water.
Infected clothe
- Eye contact Do not rub the eye to avoid possible corneal damage. If available, remove contact lenses. Tilt your head towards the damaged eye, rinse with plenty of water for at least 20 minutes until the particles under your eyelid move away.
- If inhaled: Inhalation may irritate the moist mucous membrane of the nose, throat and upper respiratory tract. Remove the person to fresh air. Remove dust from the throat and nose. If irritation occurs, cough and other symptoms are observed, consult a doctor.
- If swallowed: Do not induce vomiting. If the person is conscious, rinse mouth with water and drink plenty of water. Call the poison centre or doctor immediately.

To avoid exposure to skin and eye contact, please follow the personal protective measures specified in Section 8 to prevent inhalation of dust.

4.2. Most important symptoms and effects, both acute and delayed

Known symptoms and effects are indicated on the label: Section 2.2 and / or Section 11.

4.3. Indication of any immediate medical attention and special treatment needed

Demonstrate this Safety Data Sheet to health personnel.

PART5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media Carbon dioxide, foam, dust and water vapour.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

MATERIAL SAFETY DATA SHEET THOR ACRYLIC ADHESIVE

Commission Regulation (EU) No 2015/830 of 28 May 2015.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN FIRE

Avoid inhalation of combustion products. The product is flammable and can form explosive mixtures with air if the powders are emitted to air in sufficient concentrations and a source of ignition is present. In case of fire or high temperatures, or in contact with sources of ignition, the fire may be fed with the solids removed from the container.

5.3. Advice for firefighters

- GENERAL ADVICE
Cool the containers with water jets to prevent the decomposition of the product and the occurrence of potentially hazardous substances in health. Always use complete equipment with fire protection. Collect fire extinguishing water which must not be discharged into the sewer. Contaminated water and fire residues used for firefighting must be disposed of in accordance with applicable laws.
- EQUIPMENT
Self-contained open circuit compressed air breathing apparatus (EN 137), protective clothing for firefighting (EN469), protective gloves for firefighters (EN 659) and firefighters' boots (HO A 29 or A30) as normal equipment for firefighting.

PART 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions In the case of vapours or dusts spread out into the air, use suitable protection for the respiratory tract. This information is valid for both staff and emergency response. Wear the protective equipment described in Section 8 and follow the safe handling and transport recommendations as defined in Section 7.

6.2. Environmental precautions

Prevent product from entering into sewers, surface waters and groundwater.

6.3. Methods and materials for protection and cleaning

Limit your surroundings with earth or inert substance. Collect a large portion of the substance and remove the residue

6.4. References to other parts

Potential information on personal protection and disposal is set out in Sections 8 and 13.

PART 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Handle the product after reading all other sections of this Safety Data Sheet. Prevent the product from spreading to the environment. Do not eat, drink or smoke during use.

7.2. Conditions for safe storage including disagreements

MATERIAL SAFETY DATA SHEET THOR ACRYLIC ADHESIVE

Commission Regulation (EU) No 2015/830 of 28 May 2015.

Store the product in labelled containers. Keep containers away from any inappropriate materials by checking the instructions in section 10.

7.3. Specific end Use(s)

No data available.

PART 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits

Portland cement

Total Dust Quantity (TWA): 15 mg/m³

Inhalable Powder Amount (TWA): 5 mg/m³

TWA: Measured or calculated time-weighted average for the 8-hour set reference period

TWA: Time-weighted average

8.2. Exposure controls

8.2.1. Engineering Measures



It should be ensured that proper technical precautions are taken and that the personal protective equipment should always be a priority and that the working area should be well ventilated by means of an effective local suction. Personal protective equipment shall bear the CE marking proving their conformity with the applicable standards.

HAND PROTECTION

In the event of prolonged contact with the product, it is recommended that hands are protected with penetration-resistant work gloves (reference EN 374 standard). The material of the work gloves should be selected according to the process of use and the products that may occur. It is also reminded that latex gloves may cause sensitization.

SKIN PROTECTION

Wear long-sleeved work clothes and safety shoes for Category II professional use (reference 89/686 / EEC Directive and EN ISO 20344 standard). After removing protective clothing, wash with soap and water.

EYE PROTECTION

Use eye protection equipment like face shield and safety goggles that has been tested and approved in accordance with standards such as EN 166 (EU).

RESPIRATORY PROTECTION

It is recommended to use a P type filter face mask (reference EN 149 standard), whose class (1, 2 or 3) and actual requirement will be determined according to the outcome of the risk assessment.

MATERIAL SAFETY DATA SHEET THOR ACRYLIC ADHESIVE

Commission Regulation (EU) No 2015/830 of 28 May 2015.

PART9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information about basic physical and chemical properties

| | |
|---------------------------------|--------------------------------------|
| Appearance | Transparent |
| pH | Not applicable. |
| Initial boiling point and range | No specific test data are available. |
| Flash point | 15 °C |
| Evaporation rate | No specific test data are available. |
| Vapour pressure | No specific test data are available. |
| Relative density | 1.00 ff10.02 g/ml (23 °C) |
| Solubility(ies) | Insoluble in water. |
| Auto-ignition temperature | No specific test data are available. |
| Viscosity | 3000-6000 cP at 25 °C |
| Explosive properties | No specific test data are available. |

9.2. Other information

No data available.

PART10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

10.3. Possibility of harmful reaction

Possibility of hazardous reactions Not known.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidising agents.

10.5. Substances to avoid

Materials to avoid Strong oxides.

10.6. Detrimental Degradation Products

Hazardous decomposition

Products Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

PART11: TOXICOLOGICAL INFORMATION



GBF NO : 80001
Revision No : 00
Revision Date : 19.11.2020
Issue Date : 19.11.2020
Page No : 1/11

Chapter I

MATERIAL SAFETY DATA SHEET THOR ACRYLIC ADHESIVE

Commission Regulation (EU) No 2015/830 of 28 May 2015.

11.1. Information about toxic effects

| | |
|--|--|
| Serious eye damage/irritation | |
| Serious eye damage/irritation | No information required. |
| Germ cell mutagenicity | |
| Genotoxicity - in vitro | Not available. |
| Carcinogenicity | |
| Carcinogenicity | Not available. |
| Reproductive toxicity | |
| Reproductive toxicity - fertility | Not available. |
| Reproductive toxicity - Development | Not available. |
| Specific target organ toxicity - single exposure STOT - single exposure | No information required. |
| Inhalation | Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing. |
| Ingestion | Gastrointestinal symptoms, including upset stomach. |
| Skin contact | Repeated exposure may cause skin dryness or cracking. Slightly irritating. |
| Eye contact | Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain. |

PART12: ECOLOGICAL INFORMATION

Ecotoxicity The product is not expected to be hazardous to the environment.

12.1. Toxicity

Toxicity No data available.

Ecological information on ingredients.

METHYL METHACRYLATE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 125,5 - 275,0 ; Pimephales promelas mg/l, Fish

Acute toxicity - aquatic
Invertebrates EC₅₀, 48 hours: 720 ; Daphnia magna mg/l, Daphnia magna

MATERIAL SAFETY DATA SHEET THOR ACRYLIC ADHESIVE

Commission Regulation (EU) No 2015/830 of 28 May 2015.

Acute toxicity - aquatic plants IC₅₀, 72 hours: 170 ; Pseudokirchneriella subcapitata mg/l,
Algae

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Ecological information on ingredients.

METHYL METHACRYLATE

Partition coefficient log Pow: 1,38

12.4. Mobility in soil

Mobility The product is insoluble in water and will sediment in water systems.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB Assessment This product does not contain any substances classified as PBT or vPvB

12.6. Other adverse effects

Other adverse effects No information required.

PART13: DISPOSAL CONSIDERATIONS

13.1. Waste processing methods

General information Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Containers should be thoroughly emptied before disposal because of the risk of an explosion. Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste via a licensed waste disposal contractor.

PART14: TRANSPORT INFORMATION

14.1. UN Number

Un No. ADR/RID: 1866
Un No. IMDG : 1866

MATERIAL SAFETY DATA SHEET THOR ACRYLIC ADHESIVE

Commission Regulation (EU) No 2015/830 of 28 May 2015.

Un No. IATA : 1866
Un No. ADN : 1866

14.2. Suitable UN Transport Name

ADR/RID: Resin Solution
IMDG : Resin Solution
IATA : Resin Solution
ADN : Resin Solution

14.3. Transport Hazard Class(es)

ADR/RID Class : 3
Label : 3
ADR/RID classification code F1
IMDG Class : 3
Label : 3
IATA Class : 3
Label : 3
ADN Class : 3
Label : 3

Transport Label:



14.4. Packaging Group

ADR / RID, IMDG, ICAO, ADN : II

14.5. Environmental Damages

ADR / RID : NO
IMDG : NO
IATA : NO
ADN : NO

14.6. Special Measures for the User

Hazards Identification

Number ADR/RID : 33

ADR Transport category : 2

MATERIAL SAFETY DATA SHEET THOR ACRYLIC ADHESIVE

Commission Regulation (EU) No 2015/830 of 28 May 2015.

Emergency Action Code : •3YE

EMS : F-E , S-E

Tunnel Restriction
Code : (D/E)

14.7. Bulk transport according to MARPOL 73/78 Annex II and IBC code

Transport in bulk according to
Annex II of MARPOL 73/78 and
the IBC Code

Not applicable.

PART15: REGULATORY INFORMATION

15.1. Safety, health and environment regulation peculiar to substance or mixture

EU legislation

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

PART16: OTHER INFORMATION

Abbreviations and acronyms used
in the safety data sheet

ATE: Acute Toxicity Estimate.
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
IATA: International Air Transport Association.
ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Dangerous Goods.
PBT: Persistent, Bioaccumulative and Toxic substance.
vPvB: Very Persistent and Very Bioaccumulative.

Key literature references and
sources for data

Source: European Chemicals Agency, <http://echa.europa.eu/> This SDS is prepared based on the information received from the product raw material.

Revision comments

This form is designed for the first time for this product.

Hazards phrases:

H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.



GBF NO : 80001
Revision No : 00
Revision Date : 19.11.2020
Issue Date : 19.11.2020
Page No : 1/11

Chapter I

MATERIAL SAFETY DATA SHEET THOR ACRYLIC ADHESIVE

Commission Regulation (EU) No 2015/830 of 28 May 2015.

H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.